



Wednesday, August 14, 2019

Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Project ID: NPDES AUGUST 2019
SDG ID: GCD80333
Sample ID#s: CD80333

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

August 14, 2019

SDG I.D.: GCD80333

Project ID: NPDES AUGUST 2019

Client Id	Lab Id	Matrix
EFFLUENT	CD80333	WASTE WATER



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Analysis Report

August 14, 2019

FOR: Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Sample Information

Matrix: WASTE WATER
Location Code: BARNHARD
Rush Request: Standard
P.O.#: G10513

Custody Information

Collected by: KG
Received by: LB
Analyzed by: see "By" below

Date

08/07/19
08/07/19

Time

7:00
16:56

Laboratory Data

SDG ID: GCD80333
Phoenix ID: CD80333

Project ID: NPDES AUGUST 2019
Client ID: EFFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Copper	0.021	0.003	mg/L	1	08/09/19	TH	E200.7
B.O.D./5 day	5.3	4.0	mg/L	2	08/08/19 13:00	RVM/RM	SM5210B-11
B.O.D./5 day End Incubation					08/13/19 14:52	RVM/RM	SM5210B-11
C.O.D.	221	10	mg/L	1	08/09/19	BJA	SM5220D-11
Ammonia as Nitrogen	1.17	1.00	mg/L	20	08/10/19	KDB	E350.1
Nitrite-N	0.925	0.050	mg/L	5	08/08/19 17:00	TB	E353.2
Nitrate-N	7.23	0.10	mg/L	5	08/08/19 17:00	TB	E353.2
Nitrogen Tot Kjeldahl	12.5	2.00	mg/L	20	08/10/19	KDB	E351.1
Total Nitrogen	20.7	0.10	mg/L	1	08/10/19	KDB	SM4500NH3/E300.0-11
Phosphorus, as P	2.23	0.050	mg/L	5	08/12/19	JR	SM4500PE-11
Total Suspended Solids	10	5.0	mg/L	1	08/08/19	BMD/BJA	SM2540D-11
Total Metals Digestion	Completed				08/08/19	AG	

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

August 14, 2019

Reviewed and Released by: Bobbi Aloisa, Vice President



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QA/QC Report

August 14, 2019

QA/QC Data

SDG I.D.: GCD80333

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 491560 (mg/L), QC Sample No: CD79697 (CD80333)													
<u>ICP Metals - Aqueous</u>													
Copper	BRL	0.0025	<0.003	<0.0025	NC	102	99.2	2.8	103			75 - 125	20



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QA/QC Report

August 14, 2019

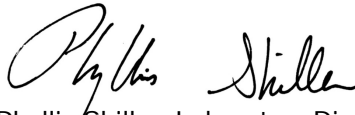
QA/QC Data

SDG I.D.: GCD80333

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 491503 (mg/L), QC Sample No: CD80087 (CD80333)													
B.O.D./5 day	BRL	2.0	<4.0	<4.0	NC	107			99.3			70 - 130	20
QA/QC Batch 491484 (mg/L), QC Sample No: CD80147 (CD80333)													
Total Suspended Solids	BRL	5.0	5.0	5.0	NC	90.0						85 - 115	
QA/QC Batch 491941 (mg/L), QC Sample No: CD80337 (CD80333)													
Phosphorus, as P	BRL	0.01	7.18	7.12	0.80	91.7			101			85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 491525 (mg/L), QC Sample No: CD80535 (CD80333)													
C.O.D.	BRL	10	27	36	NC	101			105			85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 491629 (mg/L), QC Sample No: CD80599 (CD80333)													
Nitrate-N	BRL	0.02	<0.02	<0.02	NC	102			104			90 - 110	20
Nitrite-N	BRL	0.01	<0.010	<0.01	NC	99.6			106			90 - 110	20
QA/QC Batch 491690 (mg/L), QC Sample No: CD80031 (CD80333)													
Ammonia as Nitrogen	BRL	0.05	50.4	43.8	14.0	107			93.5			90 - 110	20
Nitrogen Tot Kjeldahl	BRL	0.10	68.8	62	10.4	95.4			96.5			85 - 115	20
Comment:													
TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.													

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference


Phyllis Shiller, Laboratory Director
August 14, 2019

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Criteria: None

State: MA

Sample Criteria Exceedances Report

GCD80333 - BARNHARD

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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Analysis Comments

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The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

